BIOTECHNOLOGY
SYSTEMS
BRANCH

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: ____10|003,632B____

Source: ____OIPE____

Date Processed by STIC: ____2|26|03____

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: **patin21help@uspto.gov** or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: **patin3help@uspto.gov** or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE USE THE CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
 http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
            Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

OIPE

Does Not Comply
Correct~~ ~~ ~~a~~ Needed

RAW SEQUENCE LISTING   DATE: 02/26/2003
PATENT APPLICATION: **US/10/003,632B**   TIME: 14:53:32

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\02262003\J003632B.raw**

```
   3 <110> APPLICANT: Lee, Chichang; Ly, Celia; Moore, Gordon; Chi, Xiamei; Centocor, Inc.
   5 <120> TITLE OF INVENTION: Methods and Compositions for Enhanced Protein Expression
and/or Growth of
   6        Cultured Cells Using Co-Transcription of a Bcl2 Encoding Nucleic Acid
   8 <130> FILE REFERENCE: CEN0269 PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/003,632B
  11 <141> CURRENT FILING DATE: 2001-11-02
  13 <160> NUMBER OF SEQ ID NOS: 14
  15 <170> SOFTWARE: PatentIn Ver 3.1
```

ERRORED SEQUENCES

```
 114 <210> SEQ ID NO: 3
 115 <211> LENGTH: 239
 116 <212> TYPE: PRT
 117 <213> ORGANISM: Homo sapiens
 119 <400> SEQUENCE: 3
 120 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
 121 1               5                   10                  15
 123 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
 124             20                  25                  30
 126 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
 127         35                  40                  45
 129 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
 130      50                  55                  60
 132 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
 133 65                  70                  75                  80
 135 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
 136             85                  90                  95
 138 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
 139             100                 105                 110
 141 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
 142             115                 120                 125
 144 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
 145             130                 135                 140
 147 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
E--> 148 <------------------(145)<-----------(150)<------------------(155)<--160 (numbering omitted)
 150 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
E--> 151 (165)------------->165 (170)----------------->(175)----------->(180) delete
 153 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
E--> 154      180                 185                 190
 156 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
E--> 157          195                 200                 205
```

Amino numbering misaligned

— use space bar instead of tab key

```
    159 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
E--> 160     210               215               220
    162 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Ser His Lys
E--> 163 225             230                 235
    178 <210> SEQ ID NO: 5
    179 <211> LENGTH: 175
    180 <212> TYPE: PRT
    181 <213> ORGANISM: Homo sapiens
    183 <400> SEQUENCE: 5
    184 Met Asp Glu Asp Val Leu Pro Gly Glu Val Leu Ala Ile Glu Gly Ile
    185 1               5               10              15
    187 Phe Met Ala Cys Gly Leu Asn Glu Pro Glu Tyr Leu Tyr His Pro Leu
    188             20              25              30
    190 Leu Ser Pro Ile Lys Leu Tyr Ile Thr Gly Leu Met Arg Asp Lys Glu
    191         35              40              45
    193 Ser Leu Phe Glu Ala Met Leu Ala Asn Val Arg Phe His Ser Thr Thr
    194     50              55              60
    196 Gly Ile Asn Gln Leu Gly Leu Ser Met Leu Gln Val Ser Gly Asp Gly
E--> 197 65              70              75              180
    199 Asn Met Asn Trp Gly Arg Ala Leu Ala Ile Leu Thr Phe Gly Ser Phe
    200             85              90              95
    202 Val Ala Gln Lys Leu Ser Asn Glu Pro His Leu Arg Asp Phe Ala Leu
    203             100             105             110
    205 Ala Val Leu Pro Val Tyr Ala Tyr Glu Ala Ile Gly Pro Gln Trp Phe
    206         115             120             125
    208 Arg Ala Arg Gly Gly Trp Arg Gly Leu Lys Ala Tyr Cys Thr Gln Val
    209     130             135             140
    211 Leu Thr Arg Arg Arg Gly Arg Arg Met Thr Ala Leu Leu Gly Ser Ile
    212 145             150             155             160
    214 Ala Leu Leu Ala Thr Ile Leu Ala Ala Val Ala Met Ser Arg Arg
    215             165             170             175
    485 <210> SEQ ID NO: 12
    486 <211> LENGTH: 245
    487 <212> TYPE: PRT
    488 <213> ORGANISM: Homo sapiens
    490 <400> SEQUENCE: 12
    491 Leu Ala Gln Arg Gly Gly Ala Arg Arg Pro Arg Gly Asp Arg Glu Arg
    492 1               5               10              15
    494 Leu Gly Ser Arg Leu Arg Ala Leu Arg Pro Gly Arg Glu Pro Arg Gln
    495 20              25              30
    497 Ser Glu Pro Pro Ala Gln Arg Gly Pro Pro Pro Ser Arg Arg Pro Pro
    498         35              40              45
    500 Ala Arg Ser Thr Ala Ser Gly His Asp Arg Pro Thr Arg Gly Ala Ala
    501     50              55              60
    503 Ala Gly Ala Arg Arg Pro Arg Met Lys Lys Lys Thr Arg Arg Arg Ser
    504 65              70              75              80
    506 Thr Arg Ser Glu Glu Leu Thr Arg Ser Glu Glu Leu Thr Leu Ser Glu
    507             85              90              95
    509 Glu Ala Thr Trp Ser Glu Glu Ala Thr Gln Ser Glu Glu Ala Thr Gln
```

delete 1 (handwritten annotation pointing to line 196/197, with "180" circled)

found 345 (handwritten annotation at line 486, "245" circled)

```
510                100                    105                    110
512 Gly Glu Glu Met Asn Arg Ser Gln Glu Val Thr Arg Asp Glu Glu Ser
513         115                    120                    125
515 Thr Arg Ser Glu Glu Val Thr Arg Glu Glu Met Ala Ala Ala Gly Leu
516         130                    135                    140
518 Thr Val Thr Val Thr His Ser Asn Glu Lys His Asp Leu His Val Thr
519 145                    150                    155                    160
521 Ser Gln Gln Gly Ser Ser Glu Pro Val Val Gln Asp Leu Ala Gln Val
522                165                    170                    175
524 Val Glu Glu Val Ile Gly Val Pro Gln Ser Phe Gln Lys Leu Ile Phe
525         180                    185                    190
527 Lys Gly Lys Ser Leu Lys Glu Met Glu Thr Pro Leu Ser Ala Leu Gly
528         195                    200                    205
530 Ile Gln Asp Gly Cys Arg Val Met Leu Ile Gly Lys Lys Asn Ser Pro
531     210                    215                    220
533 Gln Glu Glu Val Glu Leu Lys Lys Leu Lys His Leu Glu Lys Ser Val
534 225                    230                    235                    240
536 Glu Lys Ile Ala Asp Gln Leu Glu Glu Leu Asn Lys Glu Leu Thr Gly
537                245                    250                    255
539 Ile Gln Gln Gly Phe Leu Pro Lys Asp Leu Gln Ala Glu Ala Leu Cys
540         260                    265                    270
542 Lys Leu Asp Arg Arg Val Lys Ala Thr Ile Glu Gln Phe Met Lys Ile
543         275                    280                    285
545 Leu Glu Glu Ile Asp Thr Leu Ile Leu Pro Glu Asn Phe Lys Asp Ser
546     290                    295                    300
548 Arg Leu Lys Arg Lys Gly Leu Val Lys Lys Val Gln Ala Phe Leu Ala
549 305                    310                    315                    320
551 Glu Cys Asp Thr Val Glu Gln Asn Ile Cys Gln Glu Thr Glu Arg Leu
552                325                    330                    335
554 Gln Ser Thr Asn Phe Ala Leu Ala Glu
E--> 555            340                    345
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/003,632B**

DATE: 02/26/2003
TIME: 14:53:33

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\02262003\J003632B.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:148 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
M:332 Repeated in SeqNo=3
L:197 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
L:555 M:252 E: No. of Seq. differs, <211> LENGTH:Input:245 Found:345 SEQ:12
L:614 M:283 W: Missing Blank Line separator, <400> field identifier